

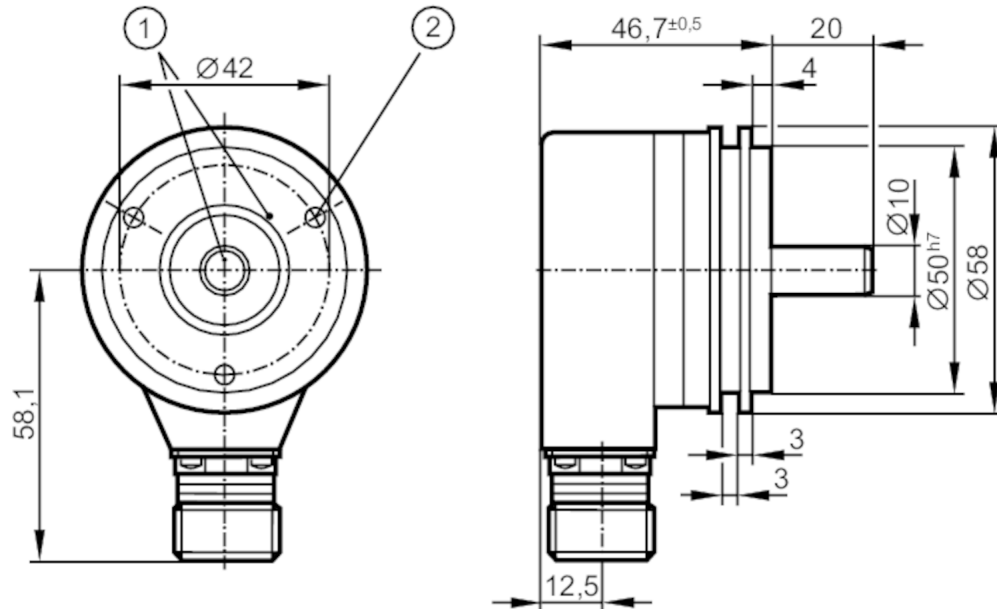
RN6057



Absolute singleturn encoder with solid shaft

RN-4096-S24/K B

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Application

Function principle	absolute
Revolution type	singleturn

Electrical data

Operating voltage	[V]	4.75...30 DC
Current consumption	[mA]	< 160

Outputs

Code	Gray code; (increasing code values when turned clockwise (seen on the shaft))
Code signal	Clock input; TTL-compatible signals; clock and clock (inv.) from drivers to RS 485; data output; synchronous serial; TTL-compatible signals, data, and data (inv.); incremental signals; 2 sinusoidal incremental signals (A and B) ; phase shifted by 90°; 1 Vss 512 signal periods per revolution

Measuring/setting range

Resolution	4096 resolution; 4096 steps; 12 bit
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Interfaces

Communication interface	SSI data interface
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Operating conditions

Ambient temperature	[°C]	-40...85
Max. relative air humidity	[%]	75; (briefly: 95 %)
Protection		IP 64

Tests / approvals

Shock resistance		100 g (6 ms)
Vibration resistance		30 g (55...2000 Hz)
MTTF	[years]	46



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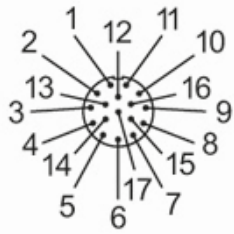
Mechanical data		
Weight	[g]	441.8
Dimensions	[mm]	Ø 58 / L = 66.7
Materials		aluminium
Max. revolution, mechanical	[U/min]	12000
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	20
Shaft design		solid shaft
Shaft diameter	[mm]	10
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	10
Max. shaft load radial (at the shaft end)	[N]	20
Remarks		
Remarks		Wires/pins not connected (n.c.) must not be used.
Notes		discontinued article
Electrical connection		
1	n.c.	
2	n.c.	
3	n.c.	
4	n.c.	
5	n.c.	
6	n.c.	
7	L+ Up	
8	clock	
9	clock inverted	
10	0v Un	
11	housing	
12	B (+)	
13	B (-)	
14	data	
15	A (+)	
16	A (-)	
17	data inverted	
Connector: 1 x M23 (ifm 1001.11), radial; Maximum cable length: 100 m		

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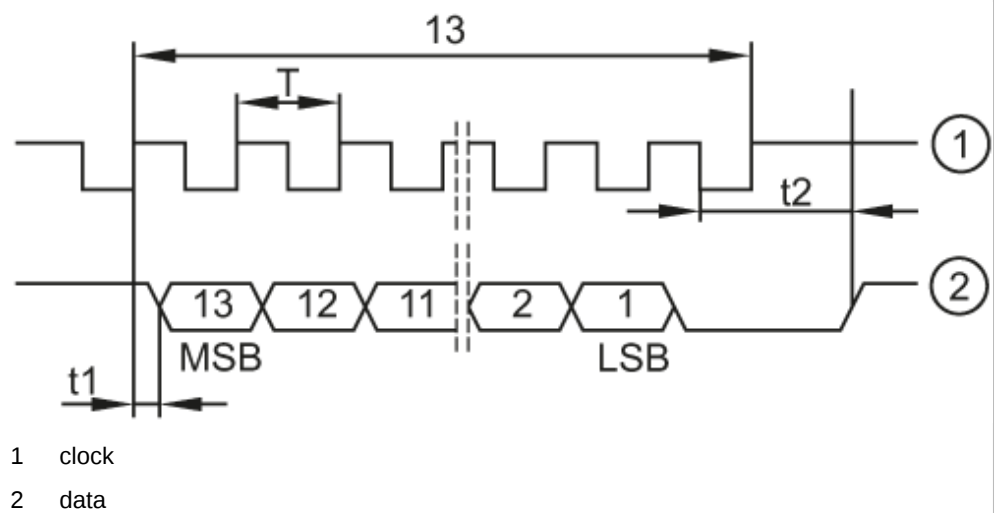
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Diagrams and graphs

Pulse diagram



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